

# SK•Machinery®

## Hot Perforation Unit - NPHM



All SK-Machinery® hot perforation units are delivered with needle segments with customized patterns according to the required perforation specification. The SK-Machinery® hot perforators are motorized and have a well-considered design and a solid construction which makes it easy to implement the perforators into an existing film process or into a brand new film machine - i.e. slitter/re-winder or bag-making application. The product you will receive is thoroughly tested, very durable and with low maintenance expenses. The NPHM principle is based on a hot perforation shaft with perforation segments/pin rings and a counter roller.

### HIGH SPEED HOT PERFORATION

We have been making perforators for more than 18 years and we are very proud to present our fifth generation of hot perforators - please see picture A. The newly developed and well-tested perforator is designed for very fast index perforation at very high temperatures.

This perforator has a working width of up to 1800 mm and a working speed up to 300 m/min for continuously perforation of i.e. BOPP.

The perforator is developed to improve index perforation and is especially suitable for perforation for i.e. bread-bags etc.. The perforator is designed to perforate in accordance with the bag length.

The heating power of the perforators varies with the width of the perforator. The max. heating power is up to 30 kW. The heating principle is externally as well as internally.

If index perforation is not requested we recommend our standard high-speed hot perforator, which is very suitable for continuous perforation - please see picture B.

All perforators can be delivered with needle segments / pin rings with patterns according to the customers request. This means that the segments can be fitted exactly to the customers production.

We also provide spacer segments to make it possible to perforate in "paths".



SK-Machinery® Hot Index Perforator - suitable for very high speed and very high temperatures.

### PERFORATION TECHNIQUES

The index perforator works as a "closed-loop-system" detecting the actual web-speed. A build-in feature enables the perforator to detect a print-mark, which controls the index perforation. Alternatively, the perforator can work as a remote controlled perforation unit controlled by an external sensor signal.

### PERFORATION SHAFT

The needle segments / pin rings on the SKM perforation unit NPHM are mounted on a shaft, which makes it simple and easy to change the segments.

The perforation shaft is placed under a protective cover, which ensures the highest level of safety during operation.

When changing the segments the front or the top of the cover can be removed. This provides easy access to the perforation segments placed on the perforation shaft.

### COUNTER ROLLER

The counter roller is a brush roller operated by pneumatic cylinders. When the counter roller is clear of the perforation shaft the distance between the rollers makes it easy to thread the film.



SK-Machinery® Standard Hot Perforator - suitable for very high speed and very high temperatures.

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